IN THE SPECIFICATION:

Please adopt the substitute specification attached hereto, pursuant to 37 CFR 1.125. The substitute specification includes no new matter. A clean version of the substitute specification is attached hereto as Appendix B, and a marked up version of the substitute specification is attached hereto as Appendix C.

IN THE CLAIMS:

Please cancel claims 1-3, amend claims 4-5 (marked up versions of claims 4-5 are attached hereto as Appendix A) and add new claims 6 - 23 as follows:

Claim 4 (amended, clean version)

A method for executing an application in a multi-channel system having a plurality of subscribers, said method comprising the steps of:

identifying each subscriber with a unique identifier which is independent of a subscriber device running said application;

presenting each subscriber with a personalized interface;

journaling transactions and memory objects during interaction with a subscriber such that upon the subscriber being disconnected during a session the subscriber is uniquely identified upon reconnection to the application; and

presenting to the subscriber an option to continue execution of the application from a previous point of execution prior to the subscriber being disconnected.

Claim 5 (amended, clean version)

The method of Claim 4 wherein said journaling comprises: storing threads of execution of a subscriber during execution of an application; and recalling said stored threads of execution upon a subscriber reconnecting to the application following the subscriber being disconnected.

Claim 6 (new)

The method of Claim 5 wherein the threads of execution are stored within a session, which is associated with a unique identifier.

Claim 7 (new)

The method of Claim 4 further comprising the step of:

presenting to the subscriber an option to begin a new transaction.

Claim 8 (new)

The method of Claim 4 further comprising the steps of:

receiving subscriber requests;

detecting subscriber requests that are out of sequence; and

providing appropriate responses to subscriber requests that are out of sequence.

Claim 9 (new)

The method of Claim 8 wherein the step of detecting out of sequence subscriber requests includes:

tracking the sequence number of each request by use of a counter variable.

Claim 10 (new)

The method of Claim 4 wherein the step of presenting each subscriber with a personalized interface includes:

detecting device types associated with subscriber devices; and

presenting content to the subscribers that is optimized for the associated subscriber devices.

Claim 11 (new)

The method of Claim 10 wherein the step of presenting content to the subscribers includes:

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translating application templates to specific markup languages associated with the device types; and

communicating the translated application templates to the subscriber devices.

Claim 12 (new)

The method of Claim 11, wherein the device types are selected from the group consisting of internet-enabled desktop systems, wireless cellular telephones, smart telephones, PDAs, mobile computers, pagers, laptops, and voice phones.

Claim 13 (new)

A system for running multi-channel applications comprising:

an application manager that is adapted to run multi-channel applications, to receive requests from clients to access the applications, and to execute the applications in response to the requests; and

a presentation manager that is adapted to detect device types associated with client requests, and to generate output to the clients that is formatted for the detected device types.

Claim 14 (new)

The system of Claim 13 wherein the presentation manager includes:

a device detection subsystem that is adapted to detect device types based on parameters of client requests; and

a view executor that is adapted to generate content optimized for the detected device types.

Claim 15 (new)

The system of Claim 14 wherein the device types are selected from the group consisting of internet-enabled desktop systems, wireless cellular telephones, smart telephones, PDAs, mobile computers, pagers, laptops, and voice phones.

Claim 16 (new)

The system of Claim 13 further comprising:

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at least one session data object, which is maintained by the system, and which is used by the system to store client transactions during execution of an application, and to recall said client transactions upon a subscriber reconnecting to the application following the subscriber being disconnected.

Claim 17 (new)

The system of Claim 14 further comprising:

means for managing out of sequence client requests.

Claim 18 (new)

The system of Claim 17 wherein the means for managing our of sequence client requests is adapted to receive client requests, detect client requests that are out of sequence, and provide appropriate responses to out of sequence client requests.

Claim 19 (new)

The system of Claim 18 further comprising:

means for determining whether a client request for a state in an application must be authorized.

Claim 20 (new)

A system for developing, running and analyzing multi-channel applications comprising:

a development module which is adapted to allow a developer to visually design a multi-channel application;

a runtime system which is adapted to operate the multi-channel application; and

a data mining module which is communicatively coupled to the runtime system and which is adapted to monitor client usage of the runtime system.

Claim 21 (new)

The system of Claim 21 wherein the data mining module is adapted to determine all paths traversed by clients within the multi-channel application and to generate reports based on client usage of the runtime system.

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Claim 22 (new)

The system of Claim 21 wherein the development module includes:

a first module adapted to allow a developer to visually design workflow for a multi-channel application;

a second module adapted to allow a developer to design views for the multi-channel application; and

a third module adapted to allow a developer to integrate data sources within the multi-channel application.

Claim 23 (new)

The system of Claim 22 wherein the runtime system includes:

an application manager that is adapted to run multi-channel applications, to receive requests from clients to access the applications, and to execute the applications in response to the requests; and

a presentation manager that is adapted to detect device types associated with client requests, and to generate output to the clients that is formatted for the detected device types.

It is respectfully asserted that the foregoing amendments place the application in better condition for examination, and that none of the foregoing changes contain any new matter.

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The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>07-1896</u>.

Respectfully submitted,

GRAY CARY WARE & FREIDENRICH LLP

Dated: December 12, 2002   By: _____

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